

CORROSION PREVENTION ON COPPER

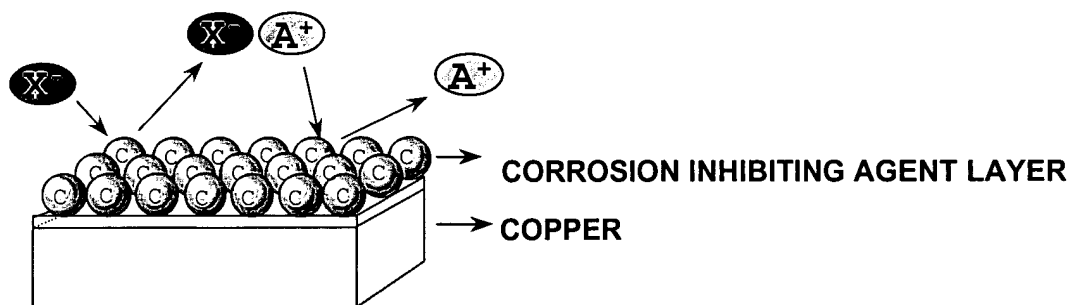
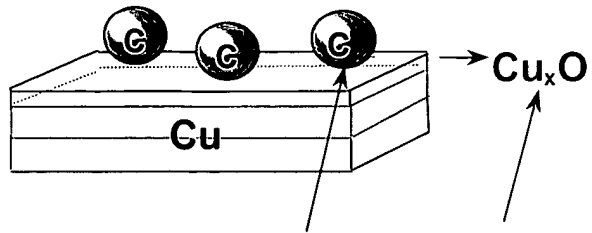


FIGURE 1

TOP SECRET-0396

CONTAMINATION TEST*

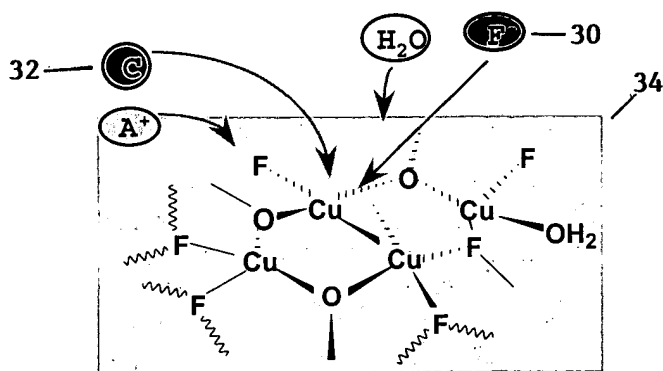
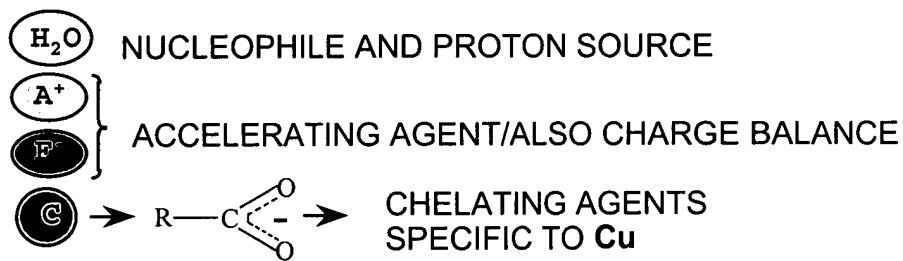


SAMPLE**	Cu (atoms/cm ²)	F (atoms/cm ²)	C (atoms/cm ²)	Cu _x O (Å)
CONTROL	1.6×10^{10}	3.3×10^{13}	7.5×10^{13}	42
Matrix 2 + IMINODIACETIC ACID INHIBITOR	8.5×10^9	5.1×10^{13}	1.5×10^{13}	15

* Blanket Cu and Si Films Processed Together,
20 mL of Chemical (25 °C @ 15 min, DI Water Rinse)

** Average of 3 Points

FIGURE 2



INSOLUBLE INORGANIC SLURRY AND RESIDUES

FIGURE 3

FIGURE 3

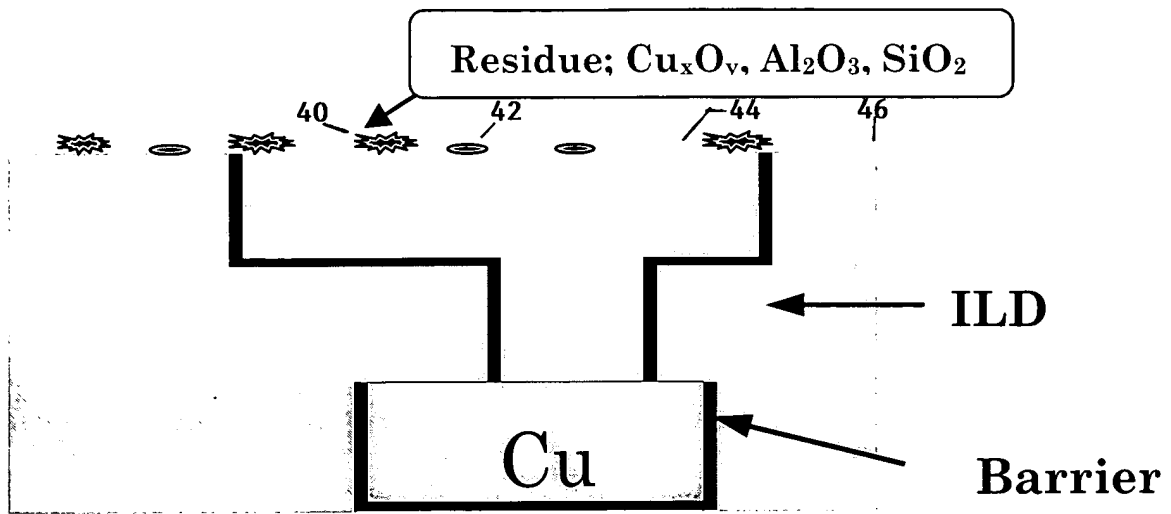


FIGURE 4

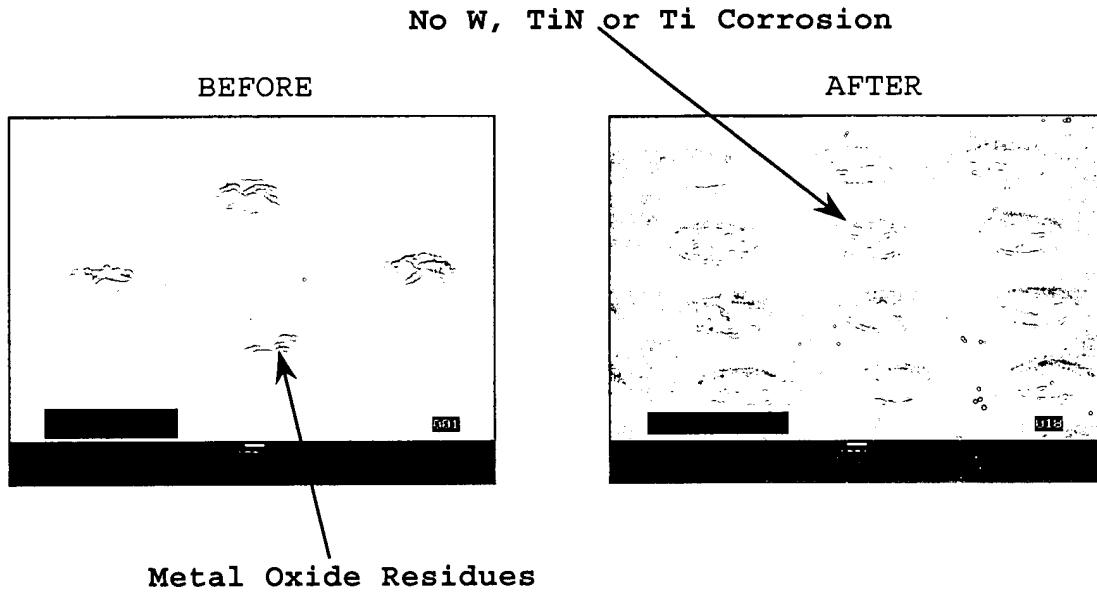


FIGURE 5

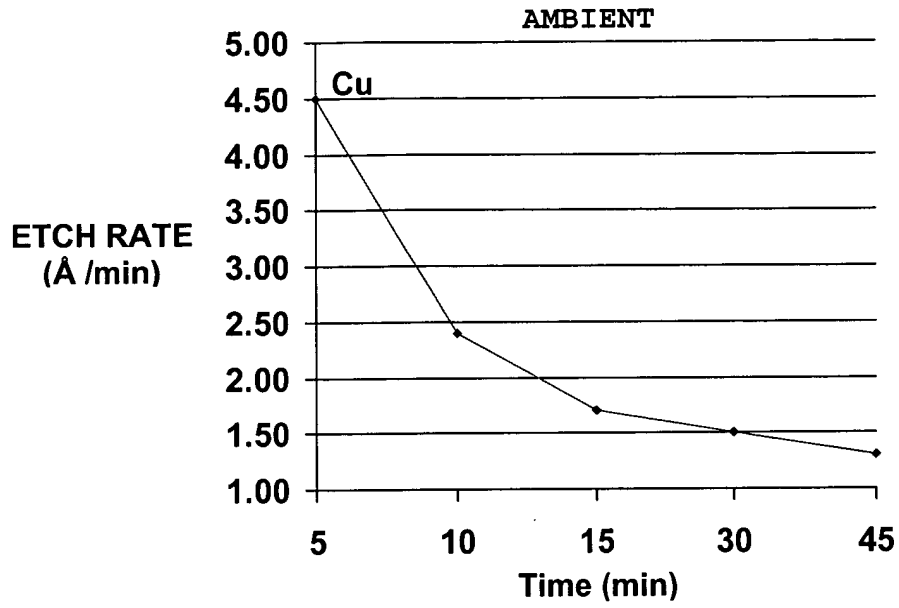


FIGURE 6

ATMI-0396 CIP